

IN THE CLAIMS:

Set forth below are unmarked claims, including claims not amended by this amendment. These claims are set forth for the convenience of the Examiner. Marked up claims are provided in an Appendix to this Amendment.

Please amend claims 1-2, 4-7, 13-14, 20-21, and 27 as follows:

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1. (Twice Amended) A method for a single hardware platform to support multiple network traffic categories, comprising:
 - detecting a request to establish a network connection to the hardware platform;
 - determining network traffic category used by the network connection; and
 - executing code to selectively enable on-board components to process data over the network connection, according to the network traffic category.
 2. (Twice Amended) The method of claim 1 further comprising invoking an appropriate one of a plurality of software modules corresponding to the network traffic category.
 3. (Unchanged) The method of claim 2 further comprising copying the appropriate one of a plurality of software modules into a local memory on the single platform.
 4. (Amended) The method of claim 2 wherein one of the plurality of network traffic category being voice data.

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5. (Amended) The method of claim 2 wherein one of the plurality of network traffic category being Asynchronous Transfer Mode (ATM).

6. (Amended) The method of claim 2 wherein one of the plurality of network traffic category being Frame Relay.

7. (Twice Amended) An apparatus for a multi-service network architecture for processing network traffic arriving on a network connection comprising:

a plurality of network on-board components residing on a single platform, the plurality of network on-board components to process data according to the network traffic category; and

a processor coupled to the plurality of network on-board components, the processor executing a predetermined one of a plurality of software modules corresponding to the category of network traffic arriving on the network connection and to selectively enable at least one of the plurality of network on-board components according to the predetermined one of a plurality of software modules.

8. (Unchanged) The apparatus of claim 7 further comprising a local memory coupled to the processor, the local memory holding the predetermined one of a plurality of software modules.

9. (Unchanged) The apparatus of claim 8 wherein at least one of the plurality of network on-board components is a Time Division Multiplexed (TDM) switch to provide full-duplex serial paths.

10. (Unchanged) The apparatus of claim 9 wherein the plurality of network on-board components comprises a plurality of T1/E1 framers coupled to a first set of plurality of ports on the TDM switch.

11. (Unchanged) The apparatus of claim 10 further comprising a plurality of digital signal processing modules coupled to a second set of a plurality of ports on the TDM switch.

12. (Unchanged) The apparatus of claim 10 further comprising a plurality of serial communication controllers coupled to a third set of a plurality of ports on the TDM switch.

13. (Twice Amended) The apparatus of claim 11 further comprising a connection management software coupled to the local memory, the connection management software identifying the category of connection set-up being requested and to invoke a corresponding one of a plurality of software modules which programs the TDM switch to correctly manage desired connectivity.

14. (Twice Amended) A system for a multi-service network architecture for processing network traffic arriving on a network connection comprising:

a plurality of network on-board components residing on a single platform, the plurality of network on-board components to process data according to the network traffic category; and

a processor coupled to the plurality of network on-board components and configured to execute a predetermined one of a plurality of software modules corresponding to the category of network traffic arriving on the network connection

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and to selectively enable at least one of the plurality of network on-board components according to the predetermined one of a plurality of software modules .

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15. (Unchanged) The system of claim 14 further comprising a local memory coupled to the processor and configured to hold the predetermined one of a plurality of software modules.

16. (Unchanged) The system of claim 15 wherein at least one the plurality of network on-board components is a Time Division Multiplexed (TDM) switch configured to provide full-duplex serial paths.

17. (Unchanged) The system of claim 16 wherein the plurality of network on-board components comprises a plurality of T1/E1 framers coupled a first set of plurality of ports on the TDM switch.

18. (Unchanged) The system of claim 17 further comprising a plurality of digital signal processing modules coupled to a second set of a plurality of ports on the TDM switch.

19. (Unchanged) The system of claim 18 further comprising a plurality of serial communication controllers coupled to a third set of a plurality of ports on the TDM switch.

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20. (Twice Amended) The system of claim 19 further comprising a connection management software coupled to the local memory and configured to identify the category of connection set-up being requested and to invoke a corresponding one of

a plurality of software modules which programs the TDM switch to correctly manage desired connectivity.

21. (Twice Amended) An apparatus for a multi-service network architecture for processing network traffic arriving on a network connection comprising:

a plurality of means for processing data for a predetermined network traffic category residing on a single platform; and

means for executing code for a predetermined one of a plurality of software modules corresponding to the category of network traffic arriving on the network connection and to selectively enable at least one of the plurality of means for processing data according to the predetermined one of a plurality of software modules, the means for executing coupled to the plurality of means for processing.

22. (Unchanged) The apparatus of claim ²¹20 further comprising means for storing the predetermined one of a plurality of software modules, the means for storing coupled to the means for executing.

23. (Unchanged) The apparatus of claim 22 wherein at least one the plurality of means for processing is a Time Division Multiplexed (TDM) switch configured to provide full-duplex serial paths.

24. (Unchanged) The apparatus of claim 23 wherein the plurality of means for processing comprises a plurality of T1/E1 framers coupled to a first set of plurality of ports on the TDM switch.

25. (Unchanged) The apparatus of claim 24 further comprising a plurality of digital signal processing modules coupled to a second set of a plurality of ports on the TDM switch.

26. (Unchanged) The apparatus of claim 25 further comprising a plurality of serial communication controllers coupled to a third set of a plurality of ports on the TDM switch.

27. (Twice Amended) The apparatus of claim 26 further comprising means for identifying the category of connection set-up being requested at the network connection and to invoke a corresponding one of a plurality of software modules which programs the TDM switch to correctly manage desired connectivity, the means for identifying coupled to the means for storing.